

Ka,Q/V-Band Earth Station – Elkton, MD.

Frequency Coordination Report

Ka, Q/V-Band

Receive: 37.5 – 42.5 GHz Transmit: 27.5 – 31.0 GHz, 47.2 – 50.2, 50.4 – 52.4 GHz



Prepared on Behalf of
SPACE EXPLORATION
HOLDINGS

July 20, 2026



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1. Summary of Results

On behalf of SPACE EXPLORATION HOLDINGS, Comsearch performed a coordination notice under Section 25.203(c) of the FCC's rules for all existing and proposed terrestrial licenses within the coordination contours of their proposed Ka, Q/V-band earth station in Elkton, MD which will receive at 40 GHz and transmit at 28 and 50 GHz¹. Prior-notification letters were sent to the licensees and a copy of the notification data is provided in section four of this report. The earth station coordination was finalized on July 20, 2026.

There are no unresolved objections from any of the incumbent 28/40/50 GHz licensees.

2. 28/40/50 GHz Common Carrier and LTTS Coordination

In accordance with FCC Rules and Regulations, the Ka, Q/V-band earth station in Elkton, MD was prior-coordinated by Comsearch. A notification letter and datasheets for this earth station were sent to the following 28/40/50 GHz common carrier fixed microwave licensees. These licensees are authorized to operate temporary fixed operations from 38.6 – 40.0 GHz on a nationwide basis or local basis.

Licensee	Authorized Geographic Area
None Identified	

A notification letter and datasheets for the Ka, Q/V-band earth station in Elkton, MD were also sent to the following 40 GHz LTTS licensee. This licensee is authorized to operate temporary fixed operations from 38.6 – 40.0 GHz on a market basis.

Licensee	Authorized Geographic Area
Broadcast Sports International, LLC	Nationwide
DCI II Inc	Nationwide
Remote Facilities Consulting Services Inc	Nationwide

No objections were received from the common carrier or LTTS incumbents.

¹ The proposed earth station will receive in the 37.5 – 42.5 GHz & transmit in the 47.2-50.2 GHz / 50.4-52.4 GHz portion of the Q/V-Band. Ka-band transmissions will be in the 27.5 – 31.0 GHz band.

3. 28/40/50 GHz UMFUS Coordination

There were eight 28/40/50 GHz UMFUS licensees identified within the coordination distance of the proposed earth station. The proposed earth station will operate on frequencies that overlap portions of the UMFUS service which includes the following frequency ranges:

27.5 GHz – 31.0 GHz
37.5 GHz – 42.5 GHz
47.2 GHz – 50.2 GHz

Licensee	Authorized Geographic Area
AT&T	Market Based
GeoLinks	Market Based
Columbia Capital	Market Based
DISH Network	Market Based
T-Mobile	Market Based
Verizon	Market Based

There were no objections from the UMFUS incumbents within the coordination distance at the end of the coordination period.



4. Earth Station Coordination Data

This section presents the data pertinent to the proposed Ka, Q/V-band earth station in Elkton, MD. This data was circulated to all incumbent licensees in the shared 28/40/50 GHz frequency ranges.

Date: 06/23/2026
Job Number: 260623COMSGE03

Administrative Information

Status: ENGINEER PROPOSAL
Call Sign:
Licensee Code: SPACEX
Licensee Name: SpaceX Services, Inc

Site Information

ELKTON, MD
Venue Name: ZAYO
Latitude (NAD 83): 39° 37' 50.5" N
Longitude (NAD 83): 75° 54' 32.6" W
Climate Zone: A
Rain Zone: 2
Ground Elevation (AMSL): 52.0 m / 170.6 ft

Link Information

Satellite Type: Low Earth Orbit
Mode: TR - Transmit-Receive
Antenna Count: 40
Modulation: Digital
Minimum Elevation Angle: 10.0°
Azimuth Range: 0.0° to 360°
Antenna Centerline (AGL): 1.7 m / 5.6 ft

Antenna Information

Manufacturer:
Model:
Gain / Diameter:
3-dB / 15-dB Beamwidth:

Receive - FCC32

SpaceX
1.99 meter
50.0 dBi / 2.0 m
0.50° / 1.00°

Transmit - FCC32

SpaceX
1.99 meter
53.9 dBi / 2.0 m
0.30° / 0.60°

Max Available RF Power (dBW/4 kHz)
(dBW/MHz)

-40.8
-16.8

Maximum EIRP (dBW/4 kHz)
(dBW/MHz)

13.1
37.1

Aggregate EIRP (dBW/MHz)

37.1

Interference Objectives: Long Term -156.0 dBW/MHz 20%
Short Term -146.0 dBW/MHz 0.01%

-151.0 dBW/4 kHz 20%
-128.0 dBW/4 kHz 0.0025%

Frequency Information

Emission / Frequency Range (MHz)

Receive 18.0 GHz

60M0D7W - 480MD7W / 17300.0 - 17800.0
60M0D7W - 480MD7W / 17800.0 - 18600.0
60M0D7W - 480MD7W / 18600.0 - 18800.0
60M0D7W - 480MD7W / 18800.0 - 19300.0
60M0D7W - 480MD7W / 19300.0 - 19700.0
60M0D7W - 480MD7W / 19700.0 - 20200.0
60M0D7W - 480MD7W / 20200.0 - 21200.0

Transmit 28.0 GHz

60M0D7W - 480MD7W / 27500.0 - 29100.0
60M0D7W - 480MD7W / 29100.0 - 29500.0
60M0D7W - 480MD7W / 29500.0 - 30000.0
60M0D7W - 480MD7W / 30000.0 - 31000.0

Max Great Circle Coordination Distance
Precipitation Scatter Contour Radius

225.0 km / 139.8 mi
100.0 km / 62.1 mi

100.0 km / 62.1 mi
100.0 km / 62.1 mi

SPACE EXPLORATION HOLDINGS
Ka, Q/V-Band Earth Station – Elkton, MD
Frequency Coordination Report
28/40/50 GHz

Coordination Values			ELKTON, MD			
Licensee Name			SpaceX Services, Inc			
Latitude (NAD 83)			39° 37' 50.5" N			
Longitude (NAD 83)			75° 54' 32.6" W			
Ground Elevation (AMSL)			52.0 m / 170.6 ft			
Antenna Centerline (AGL)			1.4 m / 4.6 ft			
Antenna Model			SpaceX 1.99 meter			
Antenna Mode			Receive 18.0 GHz		Transmit 28.0 GHz	
Interference Objectives: Long Term			-156.0 dBW/MHz	20%	-151.0 dBW/4 kHz	20%
Short Term			-146.0 dBW/MHz	0.01%	-128.0 dBW/4 kHz	0.0025%
Max Available RF Power			-40.8 (dBW/4 kHz)			
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 18.0 GHz		Transmit 28.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
0	1.34	99.10	0.00	225.00	0.00	100.00
5	1.21	94.10	0.00	225.00	0.00	100.00
10	1.15	89.10	0.00	225.00	0.00	100.00
15	1.16	84.10	0.00	225.00	0.00	100.00
20	0.80	79.10	0.00	225.00	0.00	100.00
25	0.65	74.10	0.00	225.00	0.00	100.00
30	0.74	69.10	0.00	225.00	0.00	100.00
35	0.68	64.11	0.00	225.00	0.00	100.00
40	0.59	59.11	0.00	225.00	0.00	100.00
45	0.51	54.11	0.00	225.00	0.00	100.00
50	0.38	49.12	0.00	225.00	0.00	100.00
55	0.33	44.13	0.00	225.00	0.00	100.00
60	0.00	39.15	0.00	225.00	0.00	100.00
65	0.30	34.14	0.00	225.00	0.00	100.00
70	0.00	29.17	0.00	225.00	0.00	100.00
75	0.00	24.19	0.00	225.00	0.00	100.00
80	0.00	19.21	0.00	225.00	0.00	100.00
85	0.00	14.25	0.00	225.00	0.00	100.00
90	0.00	9.34	0.00	225.00	0.00	100.00
95	0.00	4.61	0.00	225.00	0.00	100.00
100	0.00	2.30	0.00	225.00	0.00	100.00
105	0.00	6.27	0.00	225.00	0.00	100.00
110	0.00	11.10	0.00	225.00	0.00	100.00
115	0.00	16.04	0.00	225.00	0.00	100.00
120	0.24	20.98	0.00	225.00	0.00	100.00
125	0.00	25.98	0.00	225.00	0.00	100.00
130	0.26	30.95	0.00	225.00	0.00	100.00
135	0.30	35.94	0.00	225.00	0.00	100.00
140	0.00	40.95	0.00	225.00	0.00	100.00
145	0.00	45.94	0.00	225.00	0.00	100.00
150	0.00	50.93	0.00	225.00	0.00	100.00
155	0.00	55.93	0.00	225.00	0.00	100.00
160	0.00	60.92	0.00	225.00	0.00	100.00
165	0.00	65.92	0.00	225.00	0.00	100.00
170	0.00	70.91	0.00	225.00	0.00	100.00
175	0.00	75.91	0.00	225.00	0.00	100.00
180	0.31	80.91	0.00	225.00	0.00	100.00
185	0.39	85.90	0.00	225.00	0.00	100.00

SPACE EXPLORATION HOLDINGS
Ka, Q/V-Band Earth Station – Elkton, MD
Frequency Coordination Report
28/40/50 GHz

Coordination Values			ELKTON, MD			
Licensee Name			SpaceX Services, Inc			
Latitude (NAD 83)			39° 37' 50.5" N			
Longitude (NAD 83)			75° 54' 32.6" W			
Ground Elevation (AMSL)			52.0 m / 170.6 ft			
Antenna Centerline (AGL)			1.4 m / 4.6 ft			
Antenna Model			SpaceX 1.99 meter			
Antenna Mode			Receive 18.0 GHz		Transmit 28.0 GHz	
Interference Objectives: Long Term			-156.0 dBW/MHz	20%	-151.0 dBW/4 kHz	20%
			Short Term	-146.0 dBW/MHz	0.01%	-128.0 dBW/4 kHz 0.0025%
Max Available RF Power			-40.8 (dBW/4 kHz)			
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 18.0 GHz		Transmit 28.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
190	0.27	90.90	0.00	225.00	0.00	100.00
195	0.00	95.90	0.00	225.00	0.00	100.00
200	0.00	100.89	0.00	225.00	0.00	100.00
205	0.00	105.89	0.00	225.00	0.00	100.00
210	0.00	110.89	0.00	225.00	0.00	100.00
215	0.00	115.88	0.00	225.00	0.00	100.00
220	0.00	120.88	0.00	225.00	0.00	100.00
225	0.00	125.87	0.00	225.00	0.00	100.00
230	0.00	130.87	0.00	225.00	0.00	100.00
235	0.00	135.86	0.00	225.00	0.00	100.00
240	0.00	140.85	0.00	225.00	0.00	100.00
245	0.00	145.84	0.00	225.00	0.00	100.00
250	0.00	150.83	0.00	225.00	0.00	100.00
255	0.31	155.84	0.00	225.00	0.00	100.00
260	0.49	160.84	0.00	225.00	0.00	100.00
265	0.48	165.81	0.00	225.00	0.00	100.00
270	0.54	170.77	0.00	225.00	0.00	100.00
275	0.62	175.64	0.00	225.00	0.00	100.00
280	0.61	178.24	0.00	225.00	0.00	100.00
285	0.64	173.92	0.00	225.00	0.00	100.00
290	0.87	169.03	0.00	225.00	0.00	100.00
295	0.69	164.04	0.00	225.00	0.00	100.00
300	0.77	159.06	0.00	225.00	0.00	100.00
305	0.87	154.07	0.00	225.00	0.00	100.00
310	0.97	149.08	0.00	225.00	0.00	100.00
315	1.64	144.10	0.00	225.00	0.00	100.00
320	1.33	139.09	0.00	225.00	0.00	100.00
325	2.04	134.10	0.00	225.00	0.00	100.00
330	1.47	129.10	0.00	225.00	0.00	100.00
335	1.69	124.10	0.00	225.00	0.00	100.00
340	1.80	119.10	0.00	225.00	0.00	100.00
345	1.77	114.10	0.00	225.00	0.00	100.00
350	1.67	109.10	0.00	225.00	0.00	100.00
355	1.50	104.10	0.00	225.00	0.00	100.00

Date: 06/23/2026
Job Number: 260623COMSGE03

Administrative Information

Status: ENGINEER PROPOSAL
Call Sign:
Licensee Code: SPACEX
Licensee Name: SpaceX Services, Inc

Site Information

ELKTON, MD
Venue Name: ZAYO
Latitude (NAD 83): 39° 37' 50.5" N
Longitude (NAD 83): 75° 54' 32.6" W
Climate Zone: A
Rain Zone: 2
Ground Elevation (AMSL): 52.0 m / 170.6 ft

Link Information

Satellite Type: Low Earth Orbit
Mode: TR - Transmit-Receive
Antenna Count: 40
Modulation: Digital
Minimum Elevation Angle: 10.0°
Azimuth Range: 0.0° to 360°
Antenna Centerline (AGL): 1.7 m / 5.6 ft

Antenna Information

Manufacturer: SpaceX
Model: 1.99 meter
Gain / Diameter: 55.9 dBi / 2.0 m
3-dB / 15-dB Beamwidth: 0.25° / 0.50°

Receive - FCC32

Transmit - FCC32

Max Available RF Power (dBW/4 kHz)
(dBW/MHz)

-47.8
-23.8

Maximum EIRP (dBW/4 kHz)
(dBW/MHz)

10.3
34.3

Aggregate EIRP (dBW/MHz)

34.3

Interference Objectives: Long Term -156.0 dBW/MHz 20%
Short Term -146.0 dBW/MHz 0.01%

-151.0 dBW/4 kHz 20%
-128.0 dBW/4 kHz 0.0025%

Frequency Information

Emission / Frequency Range (MHz)

Receive 40.0 GHz

60M0D7W - 480MD7W / 37500.0 - 42500.0

Transmit 50.0 GHz

60M0D7W - 480MD7W / 47200.0 - 50200.0
60M0D7W - 480MD7W / 50400.0 - 51400.0
60M0D7W - 480MD7W / 51400.0 - 52400.0

Max Great Circle Coordination Distance
Precipitation Scatter Contour Radius

225.0 km / 139.8 mi
100.0 km / 62.1 mi

100.0 km / 62.1 mi
100.0 km / 62.1 mi

Coordination Values			ELKTON, MD			
Licensee Name			SpaceX Services, Inc			
Latitude (NAD 83)			39° 37' 50.5" N			
Longitude (NAD 83)			75° 54' 32.6" W			
Ground Elevation (AMSL)			52.0 m / 170.6 ft			
Antenna Centerline (AGL)			1.4 m / 4.6 ft			
Antenna Model			SpaceX 1.99 meter			
Antenna Mode			Receive 40.0 GHz		Transmit 50.0 GHz	
Interference Objectives: Long Term			-156.0 dBW/MHz	20%	-151.0 dBW/4 kHz	20%
			Short Term	-146.0 dBW/MHz	0.01%	-128.0 dBW/4 kHz
Max Available RF Power			-47.8 (dBW/4 kHz)			
			Receive 40.0 GHz		Transmit 50.0 GHz	
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
0	1.34	99.10	0.00	225.00	0.00	100.00
5	1.21	94.10	0.00	225.00	0.00	100.00
10	1.15	89.10	0.00	225.00	0.00	100.00
15	1.16	84.10	0.00	225.00	0.00	100.00
20	0.80	79.10	0.00	225.00	0.00	100.00
25	0.65	74.10	0.00	225.00	0.00	100.00
30	0.74	69.10	0.00	225.00	0.00	100.00
35	0.68	64.11	0.00	225.00	0.00	100.00
40	0.59	59.11	0.00	225.00	0.00	100.00
45	0.51	54.11	0.00	225.00	0.00	100.00
50	0.38	49.12	0.00	225.00	0.00	100.00
55	0.33	44.13	0.00	225.00	0.00	100.00
60	0.00	39.15	0.00	225.00	0.00	100.00
65	0.30	34.14	0.00	225.00	0.00	100.00
70	0.00	29.17	0.00	225.00	0.00	100.00
75	0.00	24.19	0.00	225.00	0.00	100.00
80	0.00	19.21	0.00	225.00	0.00	100.00
85	0.00	14.25	0.00	225.00	0.00	100.00
90	0.00	9.34	0.00	225.00	0.00	100.00
95	0.00	4.61	0.00	225.00	0.00	100.00
100	0.00	2.30	0.00	225.00	0.00	100.00
105	0.00	6.27	0.00	225.00	0.00	100.00
110	0.00	11.10	0.00	225.00	0.00	100.00
115	0.00	16.04	0.00	225.00	0.00	100.00
120	0.24	20.98	0.00	225.00	0.00	100.00
125	0.00	25.98	0.00	225.00	0.00	100.00
130	0.26	30.95	0.00	225.00	0.00	100.00
135	0.30	35.94	0.00	225.00	0.00	100.00
140	0.00	40.95	0.00	225.00	0.00	100.00
145	0.00	45.94	0.00	225.00	0.00	100.00
150	0.00	50.93	0.00	225.00	0.00	100.00
155	0.00	55.93	0.00	225.00	0.00	100.00
160	0.00	60.92	0.00	225.00	0.00	100.00
165	0.00	65.92	0.00	225.00	0.00	100.00
170	0.00	70.91	0.00	225.00	0.00	100.00
175	0.00	75.91	0.00	225.00	0.00	100.00
180	0.31	80.91	0.00	225.00	0.00	100.00
185	0.39	85.90	0.00	225.00	0.00	100.00

SPACE EXPLORATION HOLDINGS
Ka, Q/V-Band Earth Station – Elkton, MD
Frequency Coordination Report
28/40/50 GHz

Coordination Values			ELKTON, MD			
Licensee Name			SpaceX Services, Inc			
Latitude (NAD 83)			39° 37' 50.5" N			
Longitude (NAD 83)			75° 54' 32.6" W			
Ground Elevation (AMSL)			52.0 m / 170.6 ft			
Antenna Centerline (AGL)			1.4 m / 4.6 ft			
Antenna Model			SpaceX 1.99 meter			
Antenna Mode			Receive 40.0 GHz		Transmit 50.0 GHz	
Interference Objectives:			Long Term	-156.0 dBW/MHz	20%	-151.0 dBW/4 kHz 20%
			Short Term	-146.0 dBW/MHz	0.01%	-128.0 dBW/4 kHz 0.0025%
Max Available RF Power			-47.8 (dBW/4 kHz)			
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 40.0 GHz		Transmit 50.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
190	0.27	90.90	0.00	225.00	0.00	100.00
195	0.00	95.90	0.00	225.00	0.00	100.00
200	0.00	100.89	0.00	225.00	0.00	100.00
205	0.00	105.89	0.00	225.00	0.00	100.00
210	0.00	110.89	0.00	225.00	0.00	100.00
215	0.00	115.88	0.00	225.00	0.00	100.00
220	0.00	120.88	0.00	225.00	0.00	100.00
225	0.00	125.87	0.00	225.00	0.00	100.00
230	0.00	130.87	0.00	225.00	0.00	100.00
235	0.00	135.86	0.00	225.00	0.00	100.00
240	0.00	140.85	0.00	225.00	0.00	100.00
245	0.00	145.84	0.00	225.00	0.00	100.00
250	0.00	150.83	0.00	225.00	0.00	100.00
255	0.31	155.84	0.00	225.00	0.00	100.00
260	0.49	160.84	0.00	225.00	0.00	100.00
265	0.48	165.81	0.00	225.00	0.00	100.00
270	0.54	170.77	0.00	225.00	0.00	100.00
275	0.62	175.64	0.00	225.00	0.00	100.00
280	0.61	178.24	0.00	225.00	0.00	100.00
285	0.64	173.92	0.00	225.00	0.00	100.00
290	0.87	169.03	0.00	225.00	0.00	100.00
295	0.69	164.04	0.00	225.00	0.00	100.00
300	0.77	159.06	0.00	225.00	0.00	100.00
305	0.87	154.07	0.00	225.00	0.00	100.00
310	0.97	149.08	0.00	225.00	0.00	100.00
315	1.64	144.10	0.00	225.00	0.00	100.00
320	1.33	139.09	0.00	225.00	0.00	100.00
325	2.04	134.10	0.00	225.00	0.00	100.00
330	1.47	129.10	0.00	225.00	0.00	100.00
335	1.69	124.10	0.00	225.00	0.00	100.00
340	1.80	119.10	0.00	225.00	0.00	100.00
345	1.77	114.10	0.00	225.00	0.00	100.00
350	1.67	109.10	0.00	225.00	0.00	100.00
355	1.50	104.10	0.00	225.00	0.00	100.00



5. Contact Information

For questions or information regarding the Ka, Q/V-band Frequency Coordination Report, please contact:

Contact person:	Gary Edwards
Title:	Senior Manager, Satellite Services
Company:	Comsearch
Address:	21515 Ridgetop Circle, Suite 300, Sterling, VA 20166
Telephone:	703-726-5662
Email:	GEdwards@Comsearch.com
Web site:	www.comsearch.com

FREQUENCY COORDINATION AND INTERFERENCE ANALYSIS REPORT

Prepared for
SpaceX Services, Inc
ELKTON, MD
Satellite Earth Station

Prepared By:
COMSEARCH
21515 Ridgetop Circle, Suite 300
Sterling, VA 20166
July 20, 2026

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1. CONCLUSIONS

An interference study considering all existing, proposed and prior coordinated microwave facilities within the coordination contours of the proposed earth station demonstrates that this site will operate satisfactorily with the common carrier microwave environment. Further, there will be no restrictions of its operation due to interference considerations.

2. SUMMARY OF RESULTS

A number of great circle interference cases were identified during the interference study of the proposed earth station. Each of the cases, which exceeded the interference objective on a line-of-sight basis, was profiled and the propagation losses estimated using NBS TN101 (Revised) techniques. The losses were found to be sufficient to reduce the signal levels to acceptable magnitudes in every case.

3. SUPPLEMENTAL SHOWING

Pursuant to Part 25.203(c) of the FCC Rules and Regulations, the satellite earth station proposed in this application was coordinated by Comsearch using computer techniques and in accordance with Part 25 of the FCC Rules and Regulations.

Coordination data for this earth station was sent to the below listed carriers with a letter dated 06/23/2026.

Company

AT&T Corp.
AT&T Mobility Spectrum LLC - NY NJ DE
AT&T Services, Inc.
Abington Heights School District
Adams County Emergency Services Dept- PA
Affiniti PA, LLC
Allentown, City of
Altius Communications
Arlington County, VA
Atlantic City Housing Authority
Atlantic, County of
Audacy License, LLC
Barnegat Township
Bergen, County of - Public Safety Dept
Blaze Broadband
Blueline Comm
Borough of Sayreville
Business Information Group, Inc.
Business Only Broadband, LLC
Calvert, County of
Camden County Metro Police
Cape May County Municipal Utilities Auth
Cape May, County of
Cellco Partnership- Eastern PA Region
Chevra Hatzalah Inc.
City of Bethlehem
City of Jersey City
City of Jersey City - IT Department
City of Jersey City, Police Department
Cobham Advanced Electronic Solutions Inc
Commissioners of Caroline County
Conterra Ultra Broadband, LLC
County of Camden
County of Hunterdon
County of Mercer
Cumberland County, New Jersey
Data Stream Mobile Technology Inc.
Delaware Division of Communications
Delaware River Port Authority
Delmarva Power and Light Company

Dish Wireless LLC
Double Dog Communications, Inc
ECW Wireless, LLC
Eastern Lancaster County School District
Eastern Shore of Virginia 811 Commission
Egg Harbor Township, Board of Education
Elauwit Connection, Inc
Enoch Pratt Free Library
Franklin County Dept. of Emergency Servi
Freehold Township Police Department
Geisinger Medical Center
Getwireless.Net
Global Telecom & Technology Americas
Gravel Hill Holdings
Greater Boston Radio Inc.
Guard Insurance Group
Halifax Area School District
Hispanic Information and Telecomm Netwrk
Hoboken Fire Department
Honest Networks, Inc.
Hudson County Div of Roads and Public Pr
Hudson County MIS Department
ICON Technologies Inc.
Jackson Twp. Police Department
Jefferson Microwave, LLC
Keystone Communications
Lackawanna County Dept. of Emergency Ser
Lackawanna, County of
Lakewood Municipal Utilities Authority
Lancaster General Hospital
Limitless Mobile, LLC
Little Egg Harbor Twp Police
Loudoun, County of
Lycoming County - Dept of Public Safety
MPS Communications
Mahwah Township New Jersey
Maryland Port Administration
Maryland, State of - MDOT-MTA
Middlesex, County of
Mifflin County Wireless
Montgomery, County of
Moose Brothers, LLC
NW Technologies, LLC
NYC DOT Staten Island Ferry
NYC OTI - Office of Tech & Innovation
Neptune Police Department
New Cingular Wireless PCS LLC - NJ
New Cingular Wireless PCS - Maryland
New Cingular Wireless PCS, LLC - PA
New Jersey, State of - NJ Transit
New Line Networks, LLC
New York City Police Department
New York City Police Department TARU
Newark, City of
Newark, City of-Police Dept
Nexstar Media Inc.

Northern York County School District
Ocean County of - Div of Wireless Tech.
Ocean, County of
One Ring Networks, Inc.
Parsippany Troy Hills Township
Pdp Group, Inc.
Pennsylvania American Water Company
Pennsylvania Turnpike Commission
Philadelphia, City of
Pierce Broadband, LLC
Plymouth Township Police Department
Pottsville Area School District
Prince William, County of
Radio One Inc
Radio One, Inc. - MD
Reading Hospital & Medical Center
Red Rose Transit Authority
Redwave Wireless
River Valley Internet LLC
Rutgers, The State University of N.J.
Secom Net
Sesame Workshop
Sinclair Broadcast Group, Inc.
SkyPacket Networks Inc.
Snyder, County of
Sonshine Family Television Corporation
South Western School District
Spectrumwave, LLC
St. Joseph Medical Center
State of Maryland - Salisbury University
State of Maryland, MIEMSS
State of New Jersey
Sullivan, County of
Susquehanna Broadband
Susquehanna Township School District
T-Mobile MW LLC
Telegia Communications Inc.
The Boeing Company
The York Water Company
Township Of Piscataway
Township of Aberdeen
Township of Lakewood
Township of Lower Merion
Township of Middletown
Tribune Media Company
Union, County Of
Upward Broadband LLC
Virginia Everywhere, LLC
WABC Television (New York), LLC
Washington Cable Systems Inc.
Weblin Holdings LLC
Weehawken, Township of
West Orange, Township of
Wicomico Board of Education
Wicomico County
Widmo Holdings LLC

XO Communications, LLC
Xchange Telecom Corporation
Zito Media Communications LLC
iHM Licenses, LLC
xWave Engineering LLC

4. EARTH STATION COORDINATION DATA

This section presents the data pertinent to frequency coordination of the proposed earth station that was circulated to all carriers within its coordination contours.

COMSEARCH**Earth Station Data Sheet**

21515 Ridgetop Circle, Suite 300, Sterling, VA 20166
(703)726-5662 <http://www.comsearch.com>

Date: 06/23/2026
Job Number: 260623COMSGE03

Administrative Information

Status ENGINEER PROPOSAL
Call Sign
Licensee Code SPACEX
Licensee Name SpaceX Services, Inc

Site Information

ELKTON, MD
Venue Name ZAYO
Latitude (NAD 83) 39° 37' 50.5" N
Longitude (NAD 83) 75° 54' 32.6" W
Climate Zone A
Rain Zone 2
Ground Elevation (AMSL) 52.0 m / 170.6 ft

Link Information

Satellite Type Low Earth Orbit
Mode TR - Transmit-Receive
Antenna Count 40
Modulation Digital
Minimum Elevation Angle 10.0°
Azimuth Range 0.0° to 360°
Antenna Centerline (AGL) 1.7 m / 5.6 ft

Antenna Information

Manufacturer
Model
Gain / Diameter
3-dB / 15-dB Beamwidth

Receive - FCC32

SpaceX
1.99 meter
50.0 dBi / 2.0 m
0.50° / 1.00°

Transmit - FCC32

SpaceX
1.99 meter
53.9 dBi / 2.0 m
0.30° / 0.60°

Max Available RF Power (dBW/4 kHz) -40.8
(dBW/MHz) -16.8

Maximum EIRP (dBW/4 kHz) 13.1
(dBW/MHz) 37.1

Aggregate EIRP (dBW/MHz) 37.1

Interference Objectives:	Long Term	-156.0 dBW/MHz	20%	-151.0 dBW/4 kHz 20%
	Short Term	-146.0 dBW/MHz	0.01%	-128.0 dBW/4 kHz 0.0025%

Frequency Information

Emission / Frequency Range (MHz)

Receive 18.0 GHz

60M0D7W - 480MD7W / 17300.0 - 17800.0
60M0D7W - 480MD7W / 17800.0 - 18600.0
60M0D7W - 480MD7W / 18600.0 - 18800.0
60M0D7W - 480MD7W / 18800.0 - 19300.0
60M0D7W - 480MD7W / 19300.0 - 19700.0
60M0D7W - 480MD7W / 19700.0 - 20200.0
60M0D7W - 480MD7W / 20200.0 - 21200.0

Transmit 28.0 GHz

60M0D7W - 480MD7W / 27500.0 - 29100.0
60M0D7W - 480MD7W / 29100.0 - 29500.0
60M0D7W - 480MD7W / 29500.0 - 30000.0
60M0D7W - 480MD7W / 30000.0 - 31000.0

Max Great Circle Coordination Distance	225.0 km / 139.8 mi	100.0 km / 62.1 mi
Precipitation Scatter Contour Radius	100.0 km / 62.1 mi	100.0 km / 62.1 mi

COMSEARCH**Earth Station Data Sheet**

21515 Ridgetop Circle, Suite 300, Sterling, VA 20166
 (703)726-5662 <http://www.comsearch.com>

Coordination Values		ELKTON, MD			
Licensee Name		SpaceX Services, Inc			
Latitude (NAD 83)		39° 37' 50.5" N			
Longitude (NAD 83)		75° 54' 32.6" W			
Ground Elevation (AMSL)		52.0 m / 170.6 ft			
Antenna Centerline (AGL)		1.4 m / 4.6 ft			
Antenna Model		SpaceX 1.99 meter			
Antenna Mode		Receive 18.0 GHz		Transmit 28.0 GHz	
Interference Objectives:	Long Term	-156.0 dBW/MHz	20%	-151.0 dBW/4 kHz	20%
	Short Term	-146.0 dBW/MHz	0.01%	-128.0 dBW/4 kHz	0.0025%
Max Available RF Power		-40.8 (dBW/4 kHz)			

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 18.0 GHz		Transmit 28.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
0	1.34	99.10	0.00	225.00	0.00	100.00
5	1.21	94.10	0.00	225.00	0.00	100.00
10	1.15	89.10	0.00	225.00	0.00	100.00
15	1.16	84.10	0.00	225.00	0.00	100.00
20	0.80	79.10	0.00	225.00	0.00	100.00
25	0.65	74.10	0.00	225.00	0.00	100.00
30	0.74	69.10	0.00	225.00	0.00	100.00
35	0.68	64.11	0.00	225.00	0.00	100.00
40	0.59	59.11	0.00	225.00	0.00	100.00
45	0.51	54.11	0.00	225.00	0.00	100.00
50	0.38	49.12	0.00	225.00	0.00	100.00
55	0.33	44.13	0.00	225.00	0.00	100.00
60	0.00	39.15	0.00	225.00	0.00	100.00
65	0.30	34.14	0.00	225.00	0.00	100.00
70	0.00	29.17	0.00	225.00	0.00	100.00
75	0.00	24.19	0.00	225.00	0.00	100.00
80	0.00	19.21	0.00	225.00	0.00	100.00
85	0.00	14.25	0.00	225.00	0.00	100.00
90	0.00	9.34	0.00	225.00	0.00	100.00
95	0.00	4.61	0.00	225.00	0.00	100.00
100	0.00	2.30	0.00	225.00	0.00	100.00
105	0.00	6.27	0.00	225.00	0.00	100.00
110	0.00	11.10	0.00	225.00	0.00	100.00
115	0.00	16.04	0.00	225.00	0.00	100.00
120	0.24	20.98	0.00	225.00	0.00	100.00
125	0.00	25.98	0.00	225.00	0.00	100.00
130	0.26	30.95	0.00	225.00	0.00	100.00
135	0.30	35.94	0.00	225.00	0.00	100.00
140	0.00	40.95	0.00	225.00	0.00	100.00
145	0.00	45.94	0.00	225.00	0.00	100.00
150	0.00	50.93	0.00	225.00	0.00	100.00
155	0.00	55.93	0.00	225.00	0.00	100.00
160	0.00	60.92	0.00	225.00	0.00	100.00
165	0.00	65.92	0.00	225.00	0.00	100.00
170	0.00	70.91	0.00	225.00	0.00	100.00
175	0.00	75.91	0.00	225.00	0.00	100.00
180	0.31	80.91	0.00	225.00	0.00	100.00
185	0.39	85.90	0.00	225.00	0.00	100.00

COMSEARCH**Earth Station Data Sheet**

21515 Ridgetop Circle, Suite 300, Sterling, VA 20166
(703)726-5662 <http://www.comsearch.com>

Coordination Values		ELKTON, MD			
Licensee Name		SpaceX Services, Inc			
Latitude (NAD 83)		39° 37' 50.5" N			
Longitude (NAD 83)		75° 54' 32.6" W			
Ground Elevation (AMSL)		52.0 m / 170.6 ft			
Antenna Centerline (AGL)		1.4 m / 4.6 ft			
Antenna Model		SpaceX 1.99 meter			
Antenna Mode		Receive 18.0 GHz		Transmit 28.0 GHz	
Interference Objectives:	Long Term	-156.0 dBW/MHz	20%	-151.0 dBW/4 kHz	20%
	Short Term	-146.0 dBW/MHz	0.01%	-128.0 dBW/4 kHz	0.0025%
Max Available RF Power		-40.8 (dBW/4 kHz)			

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 18.0 GHz		Transmit 28.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
190	0.27	90.90	0.00	225.00	0.00	100.00
195	0.00	95.90	0.00	225.00	0.00	100.00
200	0.00	100.89	0.00	225.00	0.00	100.00
205	0.00	105.89	0.00	225.00	0.00	100.00
210	0.00	110.89	0.00	225.00	0.00	100.00
215	0.00	115.88	0.00	225.00	0.00	100.00
220	0.00	120.88	0.00	225.00	0.00	100.00
225	0.00	125.87	0.00	225.00	0.00	100.00
230	0.00	130.87	0.00	225.00	0.00	100.00
235	0.00	135.86	0.00	225.00	0.00	100.00
240	0.00	140.85	0.00	225.00	0.00	100.00
245	0.00	145.84	0.00	225.00	0.00	100.00
250	0.00	150.83	0.00	225.00	0.00	100.00
255	0.31	155.84	0.00	225.00	0.00	100.00
260	0.49	160.84	0.00	225.00	0.00	100.00
265	0.48	165.81	0.00	225.00	0.00	100.00
270	0.54	170.77	0.00	225.00	0.00	100.00
275	0.62	175.64	0.00	225.00	0.00	100.00
280	0.61	178.24	0.00	225.00	0.00	100.00
285	0.64	173.92	0.00	225.00	0.00	100.00
290	0.87	169.03	0.00	225.00	0.00	100.00
295	0.69	164.04	0.00	225.00	0.00	100.00
300	0.77	159.06	0.00	225.00	0.00	100.00
305	0.87	154.07	0.00	225.00	0.00	100.00
310	0.97	149.08	0.00	225.00	0.00	100.00
315	1.64	144.10	0.00	225.00	0.00	100.00
320	1.33	139.09	0.00	225.00	0.00	100.00
325	2.04	134.10	0.00	225.00	0.00	100.00
330	1.47	129.10	0.00	225.00	0.00	100.00
335	1.69	124.10	0.00	225.00	0.00	100.00
340	1.80	119.10	0.00	225.00	0.00	100.00
345	1.77	114.10	0.00	225.00	0.00	100.00
350	1.67	109.10	0.00	225.00	0.00	100.00
355	1.50	104.10	0.00	225.00	0.00	100.00

COMSEARCH

Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703)726-5500 <http://www.comsearch.com>

Date: 06/23/2026
Job Number: 260623COMSGE03

Administrative Information

Status: ENGINEER PROPOSAL
Call Sign:
Licensee Code: SPACEX
Licensee Name: SpaceX Services, Inc

Site Information

ELKTON, MD
Venue Name: ZAYO
Latitude (NAD 83): 39° 37' 50.5" N
Longitude (NAD 83): 75° 54' 32.6" W
Climate Zone: A
Rain Zone: 2
Ground Elevation (AMSL): 52.0 m / 170.6 ft

Link Information

Satellite Type: Low Earth Orbit
Mode: TR - Transmit-Receive
Antenna Count: 40
Modulation: Digital
Minimum Elevation Angle: 10.0°
Azimuth Range: 0.0° to 360°
Antenna Centerline (AGL): 1.7 m / 5.6 ft

Antenna Information

Manufacturer:
Model:
Gain / Diameter:
3-dB / 15-dB Beamwidth:

Receive - FCC32

SpaceX
1.99 meter
55.9 dBi / 2.0 m
0.25° / 0.50°

Transmit - FCC32

SpaceX
1.99 meter
58.1 dBi / 2.0 m
0.20° / 0.40°

Max Available RF Power (dBW/4 kHz): -47.8
(dBW/MHz): -23.8

Maximum EIRP (dBW/4 kHz): 10.3
(dBW/MHz): 34.3

Aggregate EIRP (dBW/MHz): 34.3

Interference Objectives: Long Term: -156.0 dBW/MHz 20% -151.0 dBW/4 kHz 20%
Short Term: -146.0 dBW/MHz 0.01% -128.0 dBW/4 kHz 0.0025%

Frequency Information

Receive 40.0 GHz

Emission / Frequency Range (MHz): 60M0D7W - 480MD7W / 37500.0 - 42500.0

Transmit 50.0 GHz

60M0D7W - 480MD7W / 47200.0 - 50200.0
60M0D7W - 480MD7W / 50400.0 - 51400.0
60M0D7W - 480MD7W / 51400.0 - 52400.0

Max Great Circle Coordination Distance: 225.0 km / 139.8 mi 100.0 km / 62.1 mi
Precipitation Scatter Contour Radius: 100.0 km / 62.1 mi 100.0 km / 62.1 mi

COMSEARCH

Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703)726-5500 <http://www.comsearch.com>

Coordination Values

ELKTON, MD

Licensee Name SpaceX Services, Inc

Latitude (NAD 83) 39° 37' 50.5" N

Longitude (NAD 83) 75° 54' 32.6" W

Ground Elevation (AMSL) 52.0 m / 170.6 ft

Antenna Centerline (AGL) 1.4 m / 4.6 ft

Antenna Model SpaceX 1.99 meter

Antenna Mode Receive 40.0 GHz

Transmit 50.0 GHz

Interference Objectives: Long Term -156.0 dBW/MHz 20% -151.0 dBW/4 kHz 20%

Short Term -146.0 dBW/MHz 0.01% -128.0 dBW/4 kHz 0.0025%

Max Available RF Power -47.8 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 40.0 GHz		Transmit 50.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
0	1.34	99.10	0.00	225.00	0.00	100.00
5	1.21	94.10	0.00	225.00	0.00	100.00
10	1.15	89.10	0.00	225.00	0.00	100.00
15	1.16	84.10	0.00	225.00	0.00	100.00
20	0.80	79.10	0.00	225.00	0.00	100.00
25	0.65	74.10	0.00	225.00	0.00	100.00
30	0.74	69.10	0.00	225.00	0.00	100.00
35	0.68	64.11	0.00	225.00	0.00	100.00
40	0.59	59.11	0.00	225.00	0.00	100.00
45	0.51	54.11	0.00	225.00	0.00	100.00
50	0.38	49.12	0.00	225.00	0.00	100.00
55	0.33	44.13	0.00	225.00	0.00	100.00
60	0.00	39.15	0.00	225.00	0.00	100.00
65	0.30	34.14	0.00	225.00	0.00	100.00
70	0.00	29.17	0.00	225.00	0.00	100.00
75	0.00	24.19	0.00	225.00	0.00	100.00
80	0.00	19.21	0.00	225.00	0.00	100.00
85	0.00	14.25	0.00	225.00	0.00	100.00
90	0.00	9.34	0.00	225.00	0.00	100.00
95	0.00	4.61	0.00	225.00	0.00	100.00
100	0.00	2.30	0.00	225.00	0.00	100.00
105	0.00	6.27	0.00	225.00	0.00	100.00
110	0.00	11.10	0.00	225.00	0.00	100.00
115	0.00	16.04	0.00	225.00	0.00	100.00
120	0.24	20.98	0.00	225.00	0.00	100.00
125	0.00	25.98	0.00	225.00	0.00	100.00
130	0.26	30.95	0.00	225.00	0.00	100.00
135	0.30	35.94	0.00	225.00	0.00	100.00
140	0.00	40.95	0.00	225.00	0.00	100.00
145	0.00	45.94	0.00	225.00	0.00	100.00
150	0.00	50.93	0.00	225.00	0.00	100.00
155	0.00	55.93	0.00	225.00	0.00	100.00
160	0.00	60.92	0.00	225.00	0.00	100.00
165	0.00	65.92	0.00	225.00	0.00	100.00
170	0.00	70.91	0.00	225.00	0.00	100.00
175	0.00	75.91	0.00	225.00	0.00	100.00
180	0.31	80.91	0.00	225.00	0.00	100.00
185	0.39	85.90	0.00	225.00	0.00	100.00

COMSEARCH

Earth Station Data Sheet

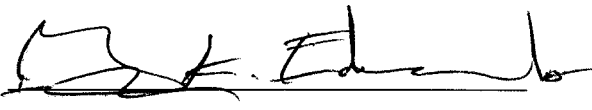
19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703)726-5500 <http://www.comsearch.com>

Coordination Values		ELKTON, MD		
Licensee Name		SpaceX Services, Inc		
Latitude (NAD 83)		39° 37' 50.5" N		
Longitude (NAD 83)		75° 54' 32.6" W		
Ground Elevation (AMSL)		52.0 m / 170.6 ft		
Antenna Centerline (AGL)		1.4 m / 4.6 ft		
Antenna Model		SpaceX 1.99 meter		
Antenna Mode		Receive 40.0 GHz		Transmit 50.0 GHz
Interference Objectives:	Long Term	-156.0 dBW/MHz	20%	-151.0 dBW/4 kHz 20%
	Short Term	-146.0 dBW/MHz	0.01%	-128.0 dBW/4 kHz 0.0025%
Max Available RF Power		-47.8 (dBW/4 kHz)		

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 40.0 GHz		Transmit 50.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
190	0.27	90.90	0.00	225.00	0.00	100.00
195	0.00	95.90	0.00	225.00	0.00	100.00
200	0.00	100.89	0.00	225.00	0.00	100.00
205	0.00	105.89	0.00	225.00	0.00	100.00
210	0.00	110.89	0.00	225.00	0.00	100.00
215	0.00	115.88	0.00	225.00	0.00	100.00
220	0.00	120.88	0.00	225.00	0.00	100.00
225	0.00	125.87	0.00	225.00	0.00	100.00
230	0.00	130.87	0.00	225.00	0.00	100.00
235	0.00	135.86	0.00	225.00	0.00	100.00
240	0.00	140.85	0.00	225.00	0.00	100.00
245	0.00	145.84	0.00	225.00	0.00	100.00
250	0.00	150.83	0.00	225.00	0.00	100.00
255	0.31	155.84	0.00	225.00	0.00	100.00
260	0.49	160.84	0.00	225.00	0.00	100.00
265	0.48	165.81	0.00	225.00	0.00	100.00
270	0.54	170.77	0.00	225.00	0.00	100.00
275	0.62	175.64	0.00	225.00	0.00	100.00
280	0.61	178.24	0.00	225.00	0.00	100.00
285	0.64	173.92	0.00	225.00	0.00	100.00
290	0.87	169.03	0.00	225.00	0.00	100.00
295	0.69	164.04	0.00	225.00	0.00	100.00
300	0.77	159.06	0.00	225.00	0.00	100.00
305	0.87	154.07	0.00	225.00	0.00	100.00
310	0.97	149.08	0.00	225.00	0.00	100.00
315	1.64	144.10	0.00	225.00	0.00	100.00
320	1.33	139.09	0.00	225.00	0.00	100.00
325	2.04	134.10	0.00	225.00	0.00	100.00
330	1.47	129.10	0.00	225.00	0.00	100.00
335	1.69	124.10	0.00	225.00	0.00	100.00
340	1.80	119.10	0.00	225.00	0.00	100.00
345	1.77	114.10	0.00	225.00	0.00	100.00
350	1.67	109.10	0.00	225.00	0.00	100.00
355	1.50	104.10	0.00	225.00	0.00	100.00

5. CERTIFICATION

I HEREBY CERTIFY THAT I AM THE TECHNICALLY QUALIFIED PERSON RESPONSIBLE FOR THE PREPARATION OF THE FREQUENCY COORDINATION DATA CONTAINED IN THIS APPLICATION, THAT I AM FAMILIAR WITH PARTS 101 AND 25 OF THE FCC RULES AND REGULATIONS, THAT I HAVE EITHER PREPARED OR REVIEWED THE FREQUENCY COORDINATION DATA SUBMITTED WITH THIS APPLICATION, AND THAT IT IS COMPLETE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

BY: 

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COMSEARCH
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DATED: July 20, 2026



E-band Frequency Coordination Report
The “Zayo” Gateway (Elkton, MD)
June 22, 2026



Summary

SpaceX performed a coordination notice under Section 25.203(c), Section 25.251, and Appendix 7 of the ITU's Radio Regulations. Prior-notification letters with earth station details were sent to potentially affected terrestrial licensees; a copy of these details are available in this report. The earth station coordination was finalized on July 07, 2026. No objections were received from any terrestrial licensees.

Methodology

SpaceX has completed an interference analysis based on accepted international and Commission methodologies demonstrating that this satellite earth station will not cause harmful interference to existing terrestrial facilities in the band. Specifically, for each known receiver within the great circle coordination distance surrounding the proposed earth station, SpaceX calculated the expected interference/noise ratio (I/N) to the receiver, assuming the SpaceX antenna properties listed on the following page, SpaceX site layout and design, free-space propagation without terrain or clutter, and actual characteristics of receiver(s) obtained from the 70/80/90 GHz link-registration database. Even under these conservative assumptions, SpaceX's analysis confirms that this earth station will not cause interference exceeding 1.0 dB of degradation to the static threshold of existing 70/80 GHz links within the great circle coordination distance.¹

Operators contacted

Prior-coordination letters were sent to the following operators:

1. 2pifi, Inc
2. AT&T Enterprises, LLC
3. Aervivo
4. BOB, LLC
5. BOB, LLC dba Business Only Broadband
6. Believe Wireless, LLC.
7. Boldyn Networks Infrastructure US LLC
8. Central Wireless LLC
9. Ceragon Networks, Inc.
10. Comcast Cable Communications Management, LLC
11. Commonwealth of Pennsylvania
12. Consolidated Spectrum Services
13. Crown Castle Fiber LLC
14. Davis Wright Tremaine LLP

¹ If there were any cases in which the interference threshold was exceeded in the conservative free-space analysis for any relevant receiver, SpaceX conducted an additional analysis with more realistic assumptions of terrain and clutter, under which the interference threshold was not exceeded for any relevant receiver. This further ensures that there will be no above-threshold interference to existing receivers.

15. Egg Harbor Township, Board of Education
16. Micronet Communications, Inc.
17. Morgan, Lewis & Bockius LLP
18. New Jersey Office of Homeland Security and Preparedness
19. Port Networks, Inc.
20. Quantum Telecommunications, Inc.
21. REMEC Broadband Wireless Networks LLC DBA Bridgewave Communications
22. Radio One, Inc
23. Siklu, Inc
24. Skywire LLC
25. SpaceX
26. T-MOBILE LICENSE LLC
27. Thought Delivery Systems Inc
28. Towerstream Corp
29. Widmo Holdings LLC
30. aervivo

Earth Station Data

This section presents the data that was circulated to all operators that met the criteria for notification for this earth station.

Site Information:

- Transmitting station name: The "Zayo" Gateway
- Transmitting station coordinates: 39.6307067871093, -75.9090728759765
- Ground Elevation (AMSL): 52.0 m
- Antenna Count: 40
- Aggregate EIRP toward the horizon: -9 dBW/MHz

Frequency Information:

- Transmit: 81-86 GHz
- Receive: 71-76 GHz
- Max Great Circle Coordination Distance: 127 km
- Rain Scatter Coordination Distance Contour: 6 km

Link Information:

- Satellite Type: Low Earth Orbit
- Mode: TR – Transmit-Receive
- Modulation: Digital
- Minimum Elevation Angle: 15.0°
- Azimuth Range: 0.0° to 360.0°
- Antenna Centerline (AGL): 1.4 m

Antenna Information:

- Manufacturer: SpaceX
- Model/Diameter: 1.99m
- Gain: 60.9 dBi at 83.5 GHz
- Max Available RF Power: -20.8 dBW/MHz
- Horizon Gain: 0 dBi
- Maximum EIRP: 40.1 dBW/MHz (main beam)
- Permissible RF Interference Power Level²: I/N ≤ -6 dB
- Antenna Mask: ITU-R S.580

² See 47 CFR § 101.105(a)(5)(i). This I/N value would cause a maximum of 1.0 dB of degradation to the static threshold of the protected receiver.

Horizon Angle by Azimuth:

All values are in degrees

Azimuth	Horizon Angle
0.0	1.25
5.0	1.16
10.0	0.99
15.0	0.91
20.0	0.78
25.0	0.61
30.0	0.56
35.0	0.62
40.0	0.59
45.0	0.47
50.0	0.40
55.0	0.28
60.0	0.18
65.0	0.27
70.0	-0.01
75.0	-0.07
80.0	0.10
85.0	0.23
90.0	-0.09
95.0	-0.10
100.0	-0.00
105.0	-0.13
110.0	-0.11
115.0	-0.12
120.0	-0.05
125.0	0.06
130.0	0.11
135.0	0.05
140.0	-0.02
145.0	-0.05
150.0	-0.13
155.0	-0.02
160.0	-0.01
165.0	0.01
170.0	0.03
175.0	0.06
180.0	0.32
185.0	0.40
190.0	0.23
195.0	0.03



Frequency Coordination Report
E-Band Earth Station

200.0	-0.11
205.0	-0.12
210.0	-0.20
215.0	-0.22
220.0	-0.21
225.0	-0.17
230.0	-0.14
235.0	-0.10
240.0	0.10
245.0	0.25
250.0	0.32
255.0	0.33
260.0	0.40
265.0	0.48
270.0	0.53
275.0	0.61
280.0	0.56
285.0	0.63
290.0	0.86
295.0	0.65
300.0	0.76
305.0	0.79
310.0	0.97
315.0	1.63
320.0	1.59
325.0	1.04
330.0	1.12
335.0	1.25
340.0	1.36
345.0	1.43
350.0	1.43
355.0	1.34